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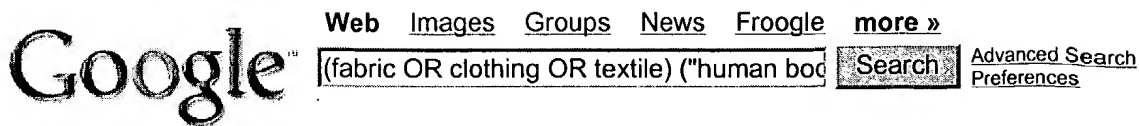
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3	14	(li-yi.in. newton-edward.in. wang-burley-zhong.in.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/09/19 22:06
4	1	) and (fabric or textile or clothing) 6624843.pn.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/09/19 21:47
5	48	(fabric or textile or clothing) and (database same thermal)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/09/19 22:06
6	22	((fabric or textile or clothing) and (database same thermal)) and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/09/19 22:34
9	15230	((human or man or woman or person or people) same (body or physical or heat or thermal or temperature or measure\$5) same (propert\$3 or characteristic)) and ((textile or clothing or fabric or material) same (propert\$3 or characteristic))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/09/19 22:24
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12	270	((human or man or woman or person or people) with (heat or thermal or temperature) with (propert\$3 or characteristic)) and ((textile or clothing or fabric or material) with (propert\$3 or characteristic))) and (simulat\$5 or emulat\$5 or calculat\$5)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/09/19 22:28
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22	87	((human or man or woman or person or people) with (heat or thermal or temperature) with (property\$3 or characteristic)) and ((textile or clothing or fabric or material) with (heat or thermal or temperature) with (property\$3 or characteristic))).ab.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/09/19 22:45



**Web** Results 1 - 10 of about 196,000 for (fabric OR clothing OR textile) ("human body") (thermal OR heat C

### Heat Exchange

... affects **heat** transfer mechanisms between the **human body** and the ... Typical indoor winter **clothing** combination. ... dry **heat** exchange to maintain the **thermal** equilibrium ...  
personal.cityu.edu.hk/~bsapplec/heat.htm - 20k - [Cached](#) - [Similar pages](#)

### Human Body in a Vacuum

... How would the unprotected **human body** react to the vacuum ... **Temperature** or radiation considerations would be interesting as ... is typically very cold, **heat** does not ...  
imagine.gsfc.nasa.gov/docs/ask\_astro/answers/970603.html - 22k - Sep 17, 2004 - [Cached](#) - [Similar pages](#)

### OTT: Cool Car - Human Thermal Comfort Model

... The **human body** is approximated with fifteen cylindrical parts, such as ... between the skin surface and **fabric** layer ... The microclimate in the **clothing** is affected by ...  
www.ott.doe.gov/coolcar/computer.html - 14k - [Cached](#) - [Similar pages](#)

### People Power: Capturing The Body's Energy For Work On and Off ...

... to cut some of those losses through "energy harvesting" from the **human body**. ... up electrons from what bodies in normal activity produce: **heat**, motion, flexing ...  
www.space.com/business/technology/body\_power\_011128-1.html - 43k - Sep 18, 2004 - [Cached](#) - [Similar pages](#)

### Effects of Temperature Extremes on the Human Body

... for radiation of differing wavelengths; **thermal** energy can ... adapt to the environment, and wear protective **clothing**. ... The **human body** cannot adjust to a decreased ...  
www.pilotfriend.com/aeromedicine/new%20upload/effects\_of\_temperature\_extremes.htm - 27k - [Cached](#) - [Similar pages](#)

### [PDF] WHAT IS HEAT STROKE? The human body attempts to maintain its core ...

File Format: PDF/Adobe Acrobat - [View as HTML](#) ...  
... The **human body** attempts to maintain its core **temperature** ... Choose lightweight, light-colored, loose-fitting **clothing**. ... to 20 times the amount of **heat** it normally ...  
www.footballcanada.com/english/documents/heat\_humidity\_03.pdf - [Similar pages](#)

### Infineon Technologies AG

... the **textile fabric** and integrate them into the **clothing**. ... times thinner than a conventional **textile** thread! ... cushions" connected via conductive **fabric** strips on ...  
www.infineon.com/cgi/ecrm.dll/jsp/showfrontend.do?lang=EN&channel\_oid=-10551 - 33k - [Cached](#) - [Similar pages](#)

### THE 6 FACTORS THAT INFLUENCE HUMAN OUTSIDE COMFORT

... wind, evaporational cooling, **temperature**, humidity and **clothing**. ... temperatures are cold, the **human body** conducts energy ... air and gradually loses **heat** (you shiver ...  
www.theweatherprediction.com/habyhints/36/ - 6k - [Cached](#) - [Similar pages](#)

### Temperature of a Healthy Human (Skin Temperature)

... core/surface gradient of ~1°C. With normal **clothing** in a ... 33 °C (91 °F) and be in **thermal** equilibrium with ... The skin is the largest organ in the **human body**. ...  
hypertextbook.com/facts/2001/AbantyFarzana.shtml - 7k - [Cached](#) - [Similar pages](#)

### Clo - Clothing and Thermal Insulation

... Clo is used to measure the **thermal** insulation of cloths. ... **Clothing**. Insulation. Clo. m<sup>2</sup>K/W. ... The mean surface area of the **human body** is approximately 1.7 m<sup>2</sup>. ...  
[www.engineeringtoolbox.com/31\\_732.html](http://www.engineeringtoolbox.com/31_732.html) - 31k - [Cached](#) - [Similar pages](#)

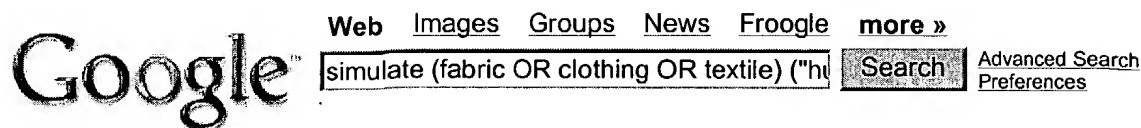
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#### OTT: Cool Car - Human Thermal Comfort Model

... transport of **heat** and moisture, **fabric** material, and ... An extensive library of **clothing thermal** and moisture ... a model that can very closely **simulate** human **thermal** ...

[www.ott.doe.gov/coolcar/computer.html](http://www.ott.doe.gov/coolcar/computer.html) - 14k - [Cached](#) - [Similar pages](#)

#### OTT: Cool Car - Thermal Comfort Manikin

... at the inner surface of the skin in the **human body**. ... approximately 300 W/m2 in order to **simulate** the high ... lag time is a function of the **thermal** diffusivity and ...

[www.ott.doe.gov/coolcar/manikin.html](http://www.ott.doe.gov/coolcar/manikin.html) - 25k - [Cached](#) - [Similar pages](#)

#### Jun 11 - TUKATECH Creates 3D Human Body Forms for Apparel Design

... Models **simulate clothing** characteristics including draping, soft body ... differentiate between the REAL **HUMAN BODY** and the ... forms draped with **fabric** that restricts ...

[www.tenlinks.com/NEWS/PR/tukatech/061104\\_3dbody.htm](http://www.tenlinks.com/NEWS/PR/tukatech/061104_3dbody.htm) - 23k - [Cached](#) - [Similar pages](#)

#### Climatic Facility Fact Sheet No. F-05 - Publications - Defence R&D ...

... wet/cold chamber: Used to **simulate** conditions from ... lost or gained (within one watt) by the **human body**. ... **Clothing** and equipment: The Climatic Facility has been ...

[www.dciem.dnd.ca/publications/factsheets/f05\\_e.html](http://www.dciem.dnd.ca/publications/factsheets/f05_e.html) - 16k - Sep 17, 2004 - [Cached](#) - [Similar pages](#)

#### Dry Heat Loss: Innova Air Tech Instruments A/S - gas analyser ...

... would lose 1.4 times more **heat** by radiation than a **human body**. ... It is not possible to **simulate** people in both dark and light coloured **clothing** for short ...

[www.innova.dk/Dry\\_Heat\\_Loss.dry\\_heat\\_loss.0.html](http://www.innova.dk/Dry_Heat_Loss.dry_heat_loss.0.html) - 28k - Sep 17, 2004 - [Cached](#) - [Similar pages](#)

#### Dress code

... use of carefully designed mannequins that **simulate** the body's ... elements: the air outside, the **fabric**, and air ... representation of both wearer and **clothing** in a ...

[www.engineeringnet.co.uk/features/eng04200108.htm](http://www.engineeringnet.co.uk/features/eng04200108.htm) - 11k - [Cached](#) - [Similar pages](#)

#### Research Projects in all Scientific Domains - 1999/2000

... of radiant temperatures around the body, for different metabolic **heat** and **clothing** level) will be used to **simulate** the **human body thermal** response of ...

[www.fct.mces.pt/projectos/pub/2000/eng/index.asp?dados=true&ficha=true&pID=36476&areaID=15](http://www.fct.mces.pt/projectos/pub/2000/eng/index.asp?dados=true&ficha=true&pID=36476&areaID=15) - 9k - [Cached](#) - [Similar pages](#)

[PDF] [http://www-vic.dsto.defence.gov.au/DSTO/policy/scientific ...](http://www-vic.dsto.defence.gov.au/DSTO/policy/scientific...)

File Format: PDF/Adobe Acrobat

... These two conditions **simulate** typical climates at ... was constructed and trained on **human body core temperature** data ... response to work, environment, and **clothing**". ...

[www.dsto.defence.gov.au/corporate/reports/DSTO-TN-0241.pdf](http://www.dsto.defence.gov.au/corporate/reports/DSTO-TN-0241.pdf) - [Similar pages](#)

#### Wind Chill Fact Sheet - Wind Chill Program - [Meteorological ...

... is a considerable difference between a **human body** and a ... They were dressed in winter **clothing**, with only ... To **simulate** other factors affecting **heat** loss, they ...

[www.msc.ec.gc.ca/education/windchill/windchill\\_fact\\_sheet\\_Aug\\_10\\_e.cfm](http://www.msc.ec.gc.ca/education/windchill/windchill_fact_sheet_Aug_10_e.cfm) - 26k - [Cached](#) - [Similar pages](#)

[PDF] Measurement of **clothing thermal** insulation and moisture vapour ...

File Format: PDF/Adobe Acrobat

... when the manikin is pushed to **simulate** body movement. ... water vapour resistance of the **clothing** ensembles and ... Water circulation system The **fabric** manikin had a ...

[www.iop.org/EJ/article/0957-0233/13/7/320/e20720.pdf](http://www.iop.org/EJ/article/0957-0233/13/7/320/e20720.pdf) - [Similar pages](#)

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**Manikin To Test Clothing Not Only Walks, It Sweats**

... a waterproof, but moisture permeable, **fabric** "skin" that ... with different versions to **simulate** different rates ... in testing functional **clothing** including military ...  
[unisci.com/stories/20022/0621026.htm](http://unisci.com/stories/20022/0621026.htm) - 8k - [Cached](#) - [Similar pages](#)

**Journal of Mechanical Engineering**

... and computing of inertial properties of **human body** (in Slovak ... planet wheels were generated to **simulate** a real ... emphasis on coupling of the **thermal** radiation with ...  
[www.strojas.sav.sk/sc2-02.htm](http://www.strojas.sav.sk/sc2-02.htm) - 6k - [Cached](#) - [Similar pages](#)

**List of Accepted Abstracts**

... two numerical programs that **simulate** the buildings ... and thermoregulatory systems, **clothing thermal** system, global ... of the **human body temperature**, is constituted ...  
[www.bs2003.tue.nl/papers/abstracts/accepted\\_abstracts\\_list\\_show.asp?PAPERS\\_ID=243](http://www.bs2003.tue.nl/papers/abstracts/accepted_abstracts_list_show.asp?PAPERS_ID=243) - 12k - [Cached](#) - [Similar pages](#)

**new02 ergo**

... exchange which is seen in the actual **human body**, where there ... By integrating the human **thermal** model with a **clothing** model that can **simulate** heat and mass ...  
[www.hql.or.jp/gpd/eng/www/nwl/n02/ergo.html](http://www.hql.or.jp/gpd/eng/www/nwl/n02/ergo.html) - 5k - [Cached](#) - [Similar pages](#)

**Measurement Technology Northwest - Thermal Measurement Systems**

... a 100% wetted surface through a **fabric**, to the ... utilizing this index for practical **clothing** applications, outfitted ... be saturated with water to **simulate** a sweat ...  
[www.mtnw-usa.com/thermalsystems/history.html](http://www.mtnw-usa.com/thermalsystems/history.html) - 18k - [Cached](#) - [Similar pages](#)

[PDF] **Thermal Newsletter #2.p65**

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... or stress of people wearing a tested **clothing** ensemble ... story on the latest advances in **textile** technology ... support the weights needed to **simulate** seat compression ...  
[www.mtnw-usa.com/pdf/Thermal\\_Newsletter2.pdf](http://www.mtnw-usa.com/pdf/Thermal_Newsletter2.pdf) - [Similar pages](#)

[PDF] **Guide fot paper**

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... amount of moisture that a specific **fabric** will absorb ... is absorbed based on the skin or **clothing** emittance ... be included in each segment to **simulate** different **heat** ...  
[www.ibpsa.org/proceedings/bs99/papers/C-11.pdf](http://www.ibpsa.org/proceedings/bs99/papers/C-11.pdf) - [Similar pages](#)

**The manikin that sweated**

... a waterproof, but moisture permeable, **fabric** "skin" that ... with different versions to **simulate** different rates ... in testing functional **clothing** including military ...  
[www.innovations-report.de/html/berichte/physik\\_astronomie/bericht-10698.html](http://www.innovations-report.de/html/berichte/physik_astronomie/bericht-10698.html) - 48k - [Cached](#) - [Similar pages](#)

[PDF] **The Electric Field induced in the Brain by Magnetic Stimulation: a ...**

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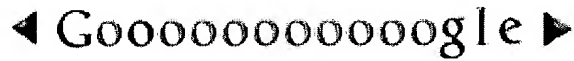
... the last sub-system is used to **simulate** the influence ... respiratory system in the velocity airflow around the **human body**. ... cm from of the skin or **clothing** surface ...  
[bioeng2003.fc.ul.pt/Conference%20Files/papers/Concei%E7%E3o,%20Experimental%20Study.pdf](http://bioeng2003.fc.ul.pt/Conference%20Files/papers/Concei%E7%E3o,%20Experimental%20Study.pdf) - [Similar pages](#)

[PDF] [2004-01-0919 A Model for Relating a Thermal Comfort Scale to EHT ...](#)

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... the contact surface are used to **simulate** its surface ... model evaporative **heat** loss from the body through **clothing**. ... of moisture that a specific **fabric** will absorb ...

[www.delphi.com/pdf/techpapers/2004-01-0919.pdf](http://www.delphi.com/pdf/techpapers/2004-01-0919.pdf) - [Similar pages](#)



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